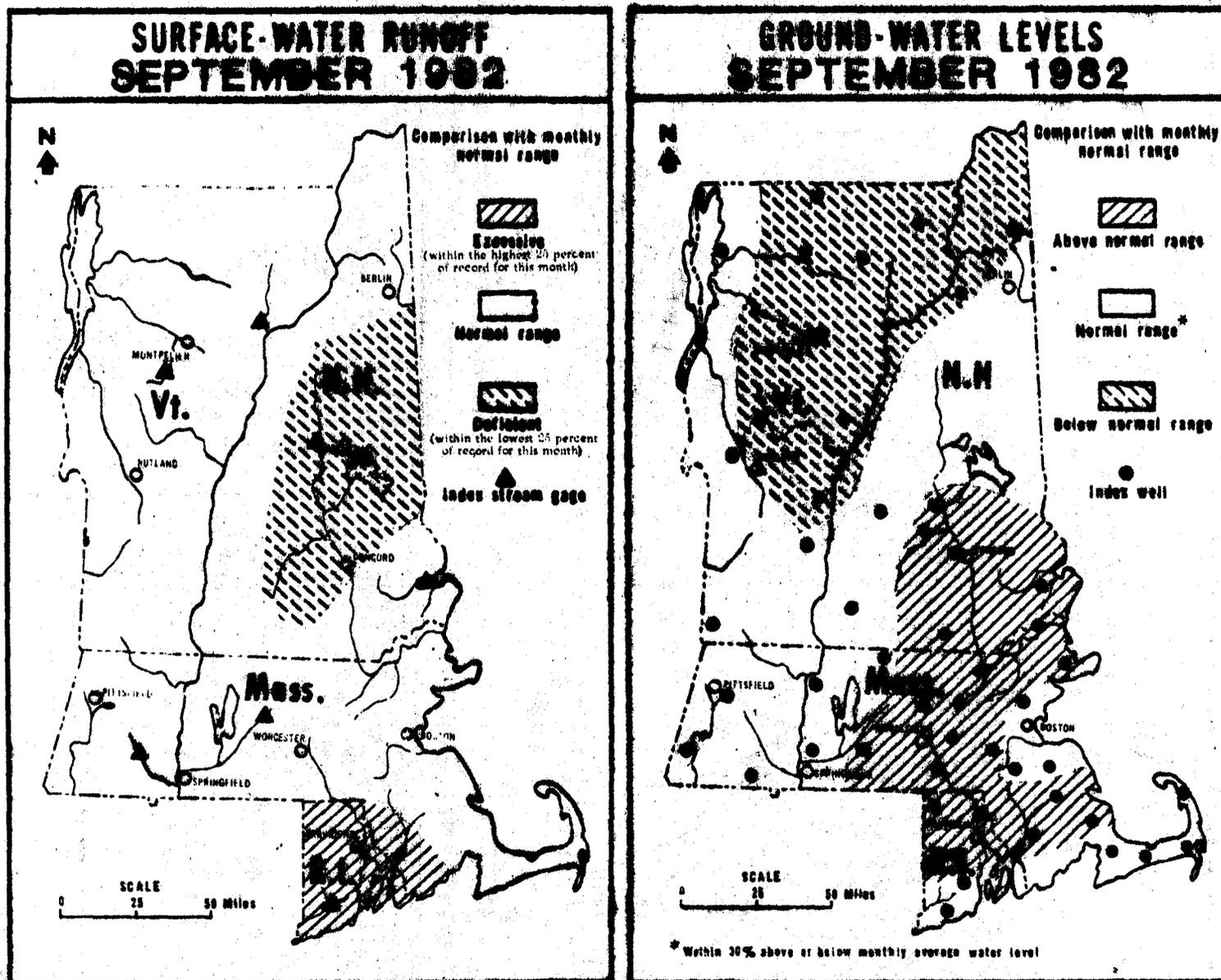




# CURRENT WATER RESOURCES CONDITIONS IN CENTRAL NEW ENGLAND



WATER RESOURCES DIVISION, U.S. GEOLOGICAL SURVEY  
IN COOPERATION WITH THE STATES OF  
MASSACHUSETTS, NEW HAMPSHIRE, RHODE ISLAND, AND VERMONT



Runoff during September was excessive in Rhode Island and southeastern Massachusetts, deficient in central New Hampshire, and in the normal range elsewhere in central New England. With normal precipitation during October, runoff is expected to be in the normal range except deficient in central New Hampshire.

Runoff for the water year October 1981 to September 1982 and for the 6-month period April to September 1982 was in the normal range in Vermont, most of New Hampshire and western Massachusetts, and was excessive in Rhode Island, central and eastern Massachusetts, and southeastern New Hampshire.

Storage in major reservoirs declined slightly and ranged from 91 to 126 percent of average for the end of September. Total contents of all index reservoirs was about 102 percent of that a year ago.

Ground-water levels in central New England declined since last month. September levels ranged from above normal to below normal as shown on the map above. About 11 percent of the wells in Massachusetts and Rhode Island set new highs for the month of September. If present trends continue, water levels near the end of October are expected to be similar to September.

MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND

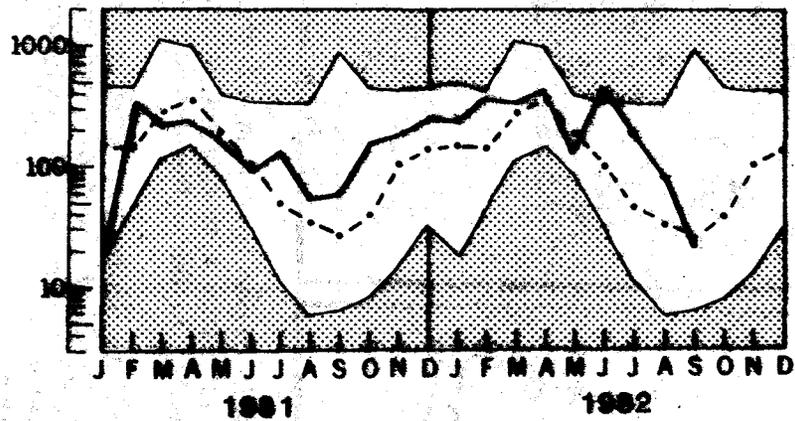
# STREAMFLOW AT SELECTED INDEX GAGES



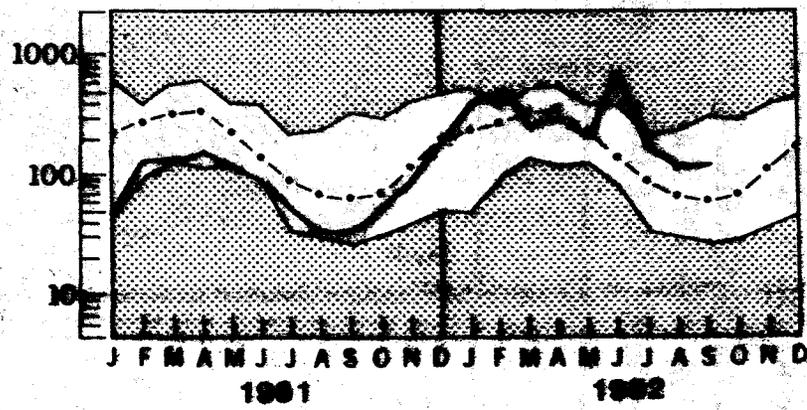
UNSHADED AREA SHOWS RANGE BETWEEN HIGHEST AND LOWEST MONTHLY MEAN DISCHARGES OF RECORD

CURRENT RECORD ——— MEDIAN - - - - -

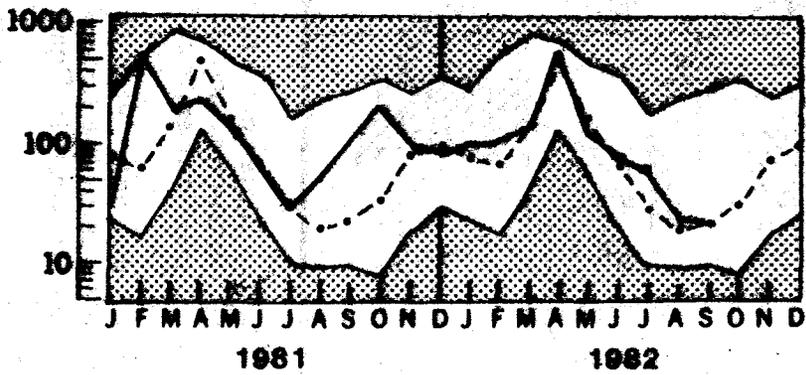
### WARE RIVER AT INTAKE WORKS NEAR BARRE, MASS. (A)



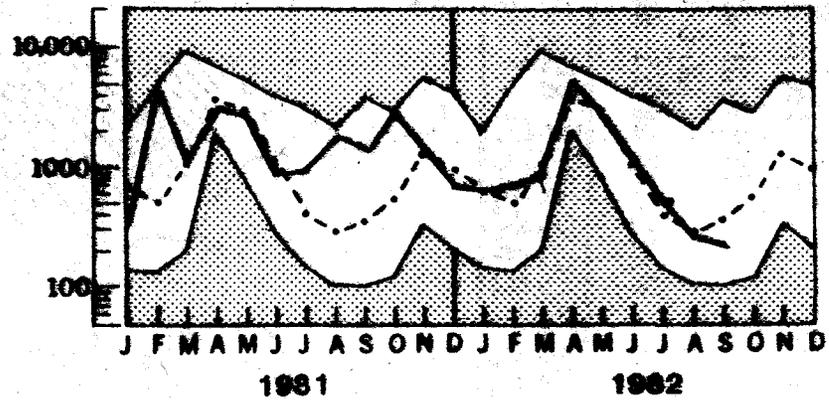
### PAWCATUCK RIVER AT WOOD RIVER JUNCTION, R.I. (B)



### DOG RIVER AT NORTHFIELD FALLS, VT. (C)



### PENGEWASSET RIVER AT PLYMOUTH, N.H. (D)



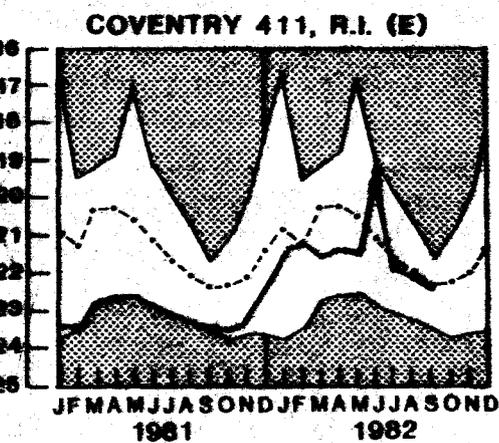
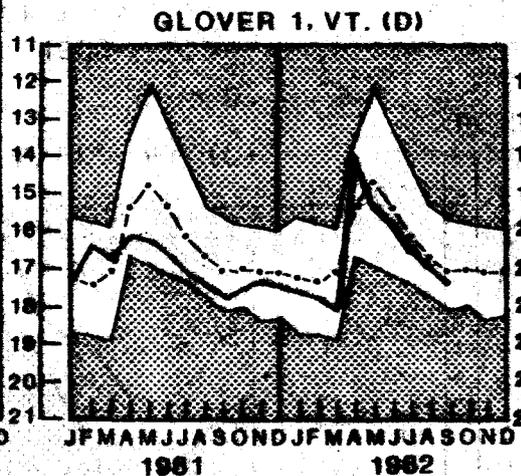
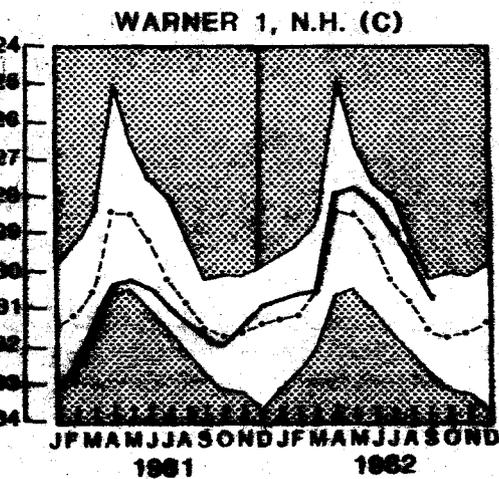
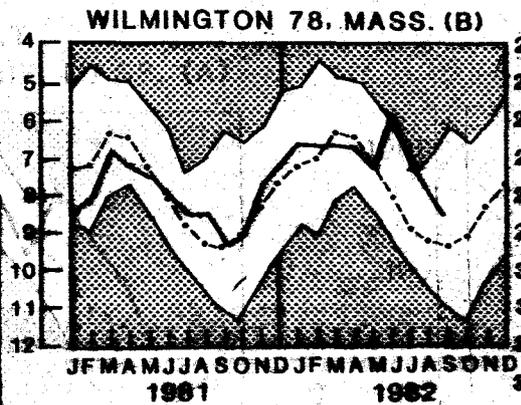
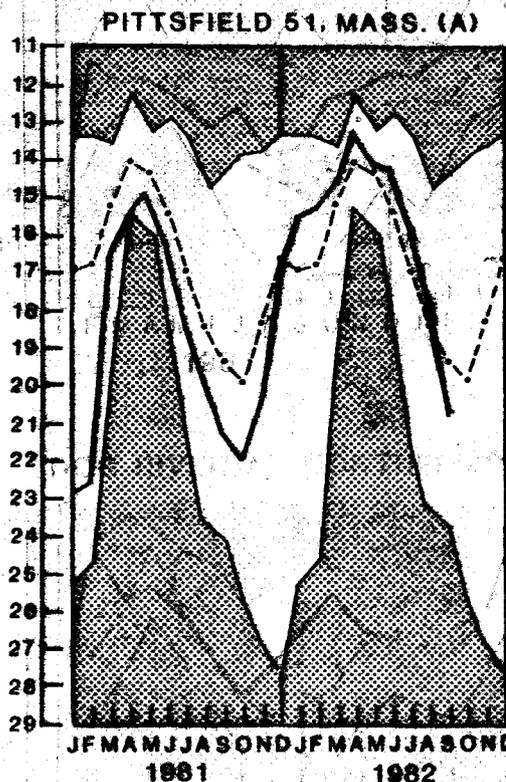
# GROUND-WATER LEVELS IN SELECTED OBSERVATION WELLS

UNSHADED AREA SHOWS RANGE BETWEEN HIGHEST AND LOWEST  
MONTH-END WATER LEVEL OF RECORD

CURRENT RECORD ——— AVERAGE - - - -



WATER LEVEL IN FEET BELOW LAND SURFACE



## SUMMARY OF GROUND-WATER LEVELS, SEPTEMBER 1982

PROVISIONAL  
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WELL	START OF RECORD	NET CHANGE		DEPARTURE FROM SEPTEMBER AVERAGE* (FEET)	WATER LEVEL BELOW LAND-SURFACE DATUM (FEET)
		IN MONTH (FEET)	IN ONE YEAR (FEET)		
MASSACHUSETTS					
ACTON 158	1965	- 0.89	+ 1.81	+ 1.24	18.68 #
BARNSTABLE 230	1957	0.0	+ 1.14	- 0.13	24.59
BARNSTABLE 247	1962	- 0.23	+ 0.89	- 0.70	25.68
BOURNE 198	1962	- 0.18	+ 0.57	- 0.16	34.20
BREWSTER 21	1962	+ 0.03	+ 1.82	- 0.85	10.85
CHATHAM 138	1962	+ 0.11	+ 1.54	+ 0.32	24.09
DEDHAM 231	1965	- 2.13	+ 1.92	+ 0.44	10.42
DOVER 10	1965	- 0.93	+ 2.00	+ 0.96	33.38 #
EAST BRIDGEWATER 30	1958	- 1.53	+ 5.81	+ 3.09	10.17
FREETOWN 23	1964	+ 0.02	+ 2.31	+ 1.11	12.73
GRANVILLE 5	1965	- 1.97	+ 3.04	+ 1.43	32.22
GREAT BARRINGTON 2	1951	- 0.13	+ 0.13	- 0.36	12.77
HAVERHILL 23	1960	- 1.19	+ 0.53	+ 0.40	13.44
LOWELL 14	1939	- 2.12	+ 2.61	+ 1.79	13.76
MONTAGUE 5	1942	- 0.54	+ 0.91	- 0.45	4.94
NORTHBOROUGH 38	1962	- 1.81	- 1.54	+ 0.26	9.66
NORTHBRIDGE 1	1965	- 0.25	+ 0.56	+ 0.41	3.05
PITTSFIELD 51	1963	- 2.82	+ 0.49	- 1.33	20.70
PLYMOUTH 22	1956	- 0.67	+ 3.39	+ 1.12	23.77
SANDWICH 252	1962	- 0.12	+ 0.28	+ 0.04	47.48
SANDWICH 253	1962	- 0.07	+ 0.97	- 1.13	51.09
STERLING 1	1947	- 2.61	- 1.30	- 0.10	10.33
TRURO 89	1962	- 0.20	+ 0.18	+ 0.04	12.41
WELLFLEET 17	1962	- 0.21	+ 1.48	+ 0.36	10.43
WENHAM 76	1965	- 0.44	+ 0.58	+ 0.64	3.11
WEST BROOKFIELD 10	1970	- 1.90	- 0.75	- 0.90	10.50
WEYMOUTH 2	1965	- 3.15	+ 4.03	+ 1.68	16.05
WILMINGTON 78	1951	- 0.85	+ 0.70	+ 0.70	8.62
WINCHENDON 13	1939	- 1.74	0.0	+ 0.93	9.27
WINCHESTER 14	1940	- 1.21	+ 0.60	- 0.07	13.10
NEW HAMPSHIRE					
CONCORD 2	1963	- 0.01	+ 2.93	+ 0.33	39.66
CONCORD 3	1966	- 0.01	+ 1.66	+ 0.63	56.19
CONCORD 4	1966	- 0.53	+ 1.45	+ 0.77	17.34
ERROL 1	1966	+*****	+ 0.10	- 0.17	12.50
FRANKLIN 1	1966	- 0.98	+ 1.21	+ 1.25	11.42
KEENE 2	1963	- 0.38	- 0.24	- 0.03	4.86
LEE 1	1953	- 0.38	+ 0.23	+ 0.11	31.53
MERRIMACK 22	1958	- 1.06	- 0.72	- 0.94	10.86
MILFORD 36	1962	- 0.42	- 0.42	+ 1.21	9.00
NASHUA 218	1964	- 0.88	+ 0.27	+ 0.63	28.64
NEW LONDON 1	1947	- 1.40	- 1.85	- 0.87	13.68
WARNER 1	1965	- 0.92	+ 1.04	+ 0.69	30.82
RHODE ISLAND					
BURRILLVILLE 187	1968	- 1.21	+ 1.48	+ 0.43	16.95
CHARLESTOWN 18	1946	- 0.78	+ 2.48	+ 0.99	18.44
COVENTRY 411	1961	- 0.41	+ 1.21	- 0.98	22.33
EXETER 16	1946	+*****	+*****	+*****	+*****
PAWTUCKET 136	1962	- 0.47	+ 1.39	+ 0.46	4.95
WEST GREENWICH 181	1969	- 0.11	+ 0.46	+ 0.36	16.43
VERMONT					
BERKSHIRE 1	1966	+ 0.30	- 0.54	- 0.47	15.28
BRIGHTON 1	1966	- 0.04	- 0.26	- 0.04	4.22
CHESTER 1	1966	- 0.06	- 0.13	- 0.16	5.90
GLOVER 1	1966	- 0.28	+ 0.68	- 0.18	17.21
HARTLAND 54	1969	- 0.19	- 0.39	- 0.29	9.74
MILTON 3	1956	- 1.19	+ 3.44	+ 1.38	31.03
MONTPELIER 2	1966	- 0.18	- 0.44	- 0.82	16.80
MORRISTOWN 1	1966	- 0.48	- 0.55	- 0.33	20.13
PITTSFORD 8	1957	- 0.27	- 0.03	+ 0.85	36.13
POWNA 1	1964	- 0.76	- 1.46	- 0.64	15.02
ROCHESTER 1	1966	- 0.27	- 2.15	- 0.46	12.58
WEST FAIRLEE 1	1966	- 0.40	- 1.11	- 0.20	5.03

# SET NEW HIGH OR EQUALED HIGHEST RECORDED WATER LEVEL FOR END OF SEPTEMBER

\* - MONTHLY AVERAGE INCLUDES CURRENT MEASUREMENT

\*\*\*\*\* - DATA NOT AVAILABLE

A MONTHLY REPORT PREPARED BY THE  
U.S. GEOLOGICAL SURVEY, WATER RESOURCES DIVISION  
150 CAUSEWAY STREET, BOSTON, MA 02114IN COOPERATION WITH THE STATES OF  
MASSACHUSETTS, NEW HAMPSHIRE, RHODE ISLAND, AND VERMONT